BULK SPECIFIC GRAVITY OF COMPACTED HOT MIX ASPHALT USING SATURATED SURFACE-DRY SPECIMENS AASHTO T 166

APPARATUS

[]		
гэ	Suspension apparatus from center of balance pan	
L J	Suspension wire of smallest practical size	
[]	Holder and sample completely immersed	
[] Water	Bath	
[]	Equipped with overflow outlet to maintain constant water level	
[]	Deep enough to completely immerse holder and sample	
[]	Water is 77 ± 1.8 °F	
[] Room	temperature is $77 \pm 9^{\circ}F$	
	Large flat bottom drying pan (Method C)	
ROCEDURE MI	ETHOD A	
	nen dried until constant mass (Note 1) is achieved (samples are not required to	
	Specimen immersed in water for 3-5 minutes and weight recorded	
[] Specin	Specimen surface dried by blotting with a damp towel as quickly as possible and weighed (Note 2)	
[] Specin	men surface dried by blotting with a damp towel as quickly as possible as	

- $125 \pm 5^{\circ}$ F does not alter the weight by more than 0.05 percent.
- Note 2 -- Terry cloth has been found to work well for use as a towel. Damp is considered to be when no water can be wrung from the towel

[]	Bulk specific gravity is calculated correctly to three decimal places (0.000) as follows:	
	Bulk Specific Gravity = $\frac{A}{B-C}$	
	where: A = weight in grams of sample in air B = weight in grams of surface - dry specimen in air C = weight in grams of sample in water	
[]	Percent water absorbed by specimen is equal to or less than 2 percent by volume as follows:	
	Percent Water Absorbed by Volume = $\frac{B-A}{B-C}$ x 100	
PROCEDU	URE METHOD C (RAPID TEST FOR SPECIMENS OBTAINED BY CORING OR SAWING)	
[]	Specimen immersed in water for 3-5 minutes and weight recorded Specimen surface dried by blotting with a damp towel as quickly as possible and weighed (Note 2)	
[]	Specimen placed in large flat bottom drying pan of known weight Pan and specimen placed in oven at $230 \pm 9^{\circ}F$ until the specimen can be easily separated to the point where the particles of the fine aggregate - binder portion are not larger than $1/4$ in.	
[]	Separated specimen dried in oven at 230°F to constant weight (Note 3)	
Not	e 3 Constant weight for Method C is defined as the weight at which further drying at $230 \pm 9^{\circ}$ F does not alter the weight by more than 0.05 percent	
[] []	Pan and specimen cooled in air to room temperature at $77 \pm 9^{\circ}$ F and weighed Dry weight of specimen determined by subtracting the weight of pan from weight of pan and sample	

AASHTO T 166

[]	Bulk specific gravity is calculated coprocedure used in Method A	orrectly to three decimal places (0.000) the same
X - F	Not Applicable Requires Corrective Action atisfactory	
Acceptance T	Technician	
INDOT		Date
Comments _		